

**REMARKS**

Claims 1-6 and 8-9 are pending in this application. By this Amendment, claims 1-4 are amended and claim 7 is canceled without prejudice or disclaimer. Reconsideration in view of the above Amendments and following remarks is respectfully requested.

The Office Action objects to claim 2 under 37 C.F.R. 1.75(c) as being in improper dependent form. Applicants amend claim 2 for clarification purposes only. Thus, Applicants request that the objection to claim 2 under 37 C.F.R 1.75(c) be withdrawn.

The Office Action rejects claims 1-3 and 9 under 35 U.S.C. §103(a) as being unpatentable over Doggett (U.S. Patent No. 5,274,401) in view of Motegi (U.S. Patent No. 6,478,413); claims 4-7 are rejected under 35 U.S.C. §103(a) as being unpatentable over Doggett in view of Motegi, and further in view of Abe (U.S. Patent No. 5,576,742); and claim 8 is rejected under 35 U.S.C. §103(a) as being unpatentable over Doggett in view of Motegi, and further in view of Bakewell (U.S. Patent No. 4,415,403). Applicants respectfully traverse the rejections.

In particular, Applicants assert that neither Doggett, Motegi, Abe nor Bakewell, either alone or in combination, disclose or suggest a printed wiring board printhead, including at least a plurality of metal layers formed on ends of the plurality of conductive traces, the plurality of metal layers extending over a first planar surface of a glass substrate and partially onto an edge of the glass substrate, and a plurality of electrodes formed where an end of the plurality of conductive traces and the plurality of metal layers are formed on the first planar surface of the glass substrate, as recited in independent claim 1.

Specifically, Doggett discloses that styli 55A of a printhead are formed on a monolithic substrate such as a printed circuit board. See Figure 2. The styli 55A are formed to be a continuous part of traces 53A.

Montegi discloses that electrodes 4 are formed as a continuous part of current-carrying parts 5. See Figure 2.

Abe discloses an image recording head in which a voltage is applied to fine pattern electrodes to directly record an image on a recording medium.

Bakewell discloses an electrostatic printhead and a method of fabrication in which a head is provided having a precision high resolution array of styli of intended cross-section and an interconnect pattern for simple connection to driving circuits.

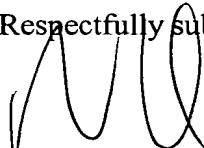
In stark contrast to Applicants' claimed invention, neither Doggett, or Mortegi, Abe or Bakewell, either alone or in combination, disclose or suggest a printed wiring board printhead, including at least a plurality of metal layers formed on ends of the plurality of conductive traces, the plurality of metal layers extending over a first planar surface of a glass substrate and partially onto an edge of the glass substrate, and a plurality of electrodes formed where an end of the plurality of conductive traces and the plurality of metal layers are formed on the first planar surface of the glass substrate.

On the contrary, nowhere in the applied references is it disclosed or suggested that, for example, an additional metal layer is part of an electrode and the metal layer extends over an upper surface of the substrate and partially onto an edge of the substrate.

Thus, because any combination of the references fails to discloses these features, the electrodes in any resulting device would not have a robust wear surface for the electrodes. Accordingly, because it would not have been obvious to combine the applied references to arrive at the claimed invention, Applicants request that the rejections under 35 U.S.C. §103(a) be withdrawn.

In view of the foregoing, it is respectfully submitted that this application is in condition for allowance. Favorable reconsideration and prompt allowance of claims 1-6 and 8-9 are earnestly solicited.

Should the Examiner believe that anything further would be desirable in order to place this application in even better condition for allowance, the Examiner is invited to contact the undersigned at the telephone number set forth below.

Respectfully submitted,  
  
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